

ER-2 #809 08/01/13

Aircraft: [ER-2 - AFRC #809](#) ([See full schedule](#))

Flight Number: 13-9048

Payload Configuration: SEAC4RS

Nav Data Collected: Yes

Total Flight Time: 3 hours

Submitted by: Timothy Moes on 08/02/13

Flight Segments:

From:	PMD	To:	PMD
Date:	08/01/13		
Flight Time:	3 hours		
Log Number:	132301	PI:	Kent Shiffer
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Check		
Comments:	This was the first instrument check flight for the SEAC4RS configuration. It was also the first flight for the newly installed Inmarsat antenna. For the most part, instruments worked well and science teams are evaluating data. ALIAS-CO did not record data - troubleshooting underway. Inmarsat had a few problems which are being investigated.		

Flight Hour Summary:

	132301
Flight Hours Approved in SOFRS	166
Total Used	164.6
Total Remaining	1.4

132301 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
08/01/13	13-9048	Check	3	3	163	
08/02/13 - 08/03/13	13-9049	Science	6.5	9.5	156.5	
08/06/13 - 08/07/13	13-9050	Science	8.4	17.9	148.1	
08/08/13	13-9051	Science	7.2	25.1	140.9	
08/12/13	13-9052	Science	7.9	33	133	
08/14/13	13-9053	Science	6	39	127	
08/16/13	13-9054	Science	7.8	46.8	119.2	
08/19/13	13-9055	Science	8.1	54.9	111.1	
08/21/13	13-9056	Science	7.3	62.2	103.8	
08/23/13	13-9057	Science	7.7	69.9	96.1	
08/27/13	13-9058	Science	7.2	77.1	88.9	
08/30/13	13-9059	Science	7.4	84.5	81.5	
09/02/13	13-9060	Science	8.2	92.7	73.3	
09/04/13	13-9061	Science	8.4	101.1	64.9	
09/06/13 - 09/07/13	13-9062	Science	8	109.1	56.9	
09/09/13 - 09/10/13	13-9063	Science	8.1	117.2	48.8	
09/11/13 - 09/12/13	13-9064	Science	7.6	124.8	41.2	
09/13/13	13-9065	Science	8	132.8	33.2	
09/16/13	13-9066	Science	8	140.8	25.2	
09/18/13	13-9067	Science	7.9	148.7	17.3	

09/22/13	13-9068	Science	8.1	156.8	9.2
09/23/13	13-9069	Science	7.8	164.6	1.4

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

Related Science Report:

SEAC4RS - ER-2 #809 08/01/13 Science Report

Mission: SEAC4RS

Mission Summary:

SEAC4RS Test flight #1

Prepared by: Jens Redemann (Jens.Redemann-1@nasa.gov)

Purpose of flight: Quick instrument and aircraft check flight, 3 x 150km leg at 65kft for polarimeters (leg WP6->WP7 coordinated with Aqua overpass), 1 x 150km leg at 45kft for testing in situ instrument performance (see flight plans below).

Take-off: 14:25 local (Pacific DST) (UTC start = 21:25, UTC end = 00:25 Aug 2)

Duration: 3.0 hrs

Notes: Take-off delayed by ~2hrs due to aircraft mechanical issue; fixed on the runway. Actual flight track very similar to plan. Debrief: Some minor issues with INMARSAT link during flight. Recycled power three times. Last recycle successful. All instruments appear to have worked nominally as far as in-flight and quick-look analyses showed. No aircraft issues. Aircraft ready to go for Friday morning test flight #2.

Images:

ER-2 test flight plan



[Read more](#)

Test flight 1 profile



[Read more](#)

Submitted by: Michael Craig on 08/03/13

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